

## Patent Abstracts of Japan

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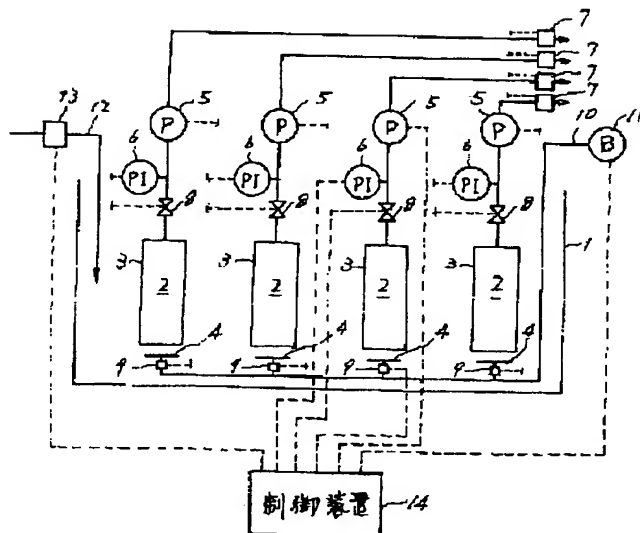
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TITLE : METHOD AND APPARATUS FOR  
SOLID-LIQUID SEPARATION OF  
WASTE WATER



ABSTRACT : PURPOSE: To extend the life of a membrane and to reduce maintenance frequency by stopping the operation of an arbitrary membrane separation unit to perform solid-liquid separation by the other membrane separation unit and successively altering the solid-liquid separation unit at every proper period to repeat the operation and stop of the respective units.

CONSTITUTION: The solid-liquid separation of waste water is performed by arranging a plurality of membrane separation units 2 in an aeration tank 1 treating org. sewage with activated sludge and the activated sludge and treated water are subjected to solid-liquid separation in the aeration tank 1 by the membrane separation units 2 in such a state that the operation of the other membrane units 2 are stopped and the stopped units 2 and the operated units 2 are successively altered at every proper period to repeat the operation and stop of the respective units. As a result, a state such that suction negative pressure is applied to the cake layer on the surface of a membrane and a state such that said negative pressure is not applied to said cake layer are generated and the cake layer becomes easy to release. Maintenance may be performed with respect to the membrane separation units 2 in a stop state and can be performed while the operation of the other units is continued.

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